

Environmental Management Waste Management Facility

Scope: The Environmental Management Waste Management (EMWMF) is a mixed waste disposal facility for waste generated from Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) response actions on the Oak Ridge Reservation. The first phase (Cells 1-2) constructed 400,000 cubic yards of disposal capacity and the second phase (Cells 3-4) provided an additional 800,000 cubic yards of capacity. Up to two additional phases of expansion (Cell 5 & Cell 6) are anticipated which would construct approximately 1,000,000 cubic yards of additional capacity necessary to support completion of the current Environmental Management (EM) scope as well as initiation of the Integrated Facility Disposition Program (IFDP).

An effort is underway to modify the existing approved design for Cell 5 to allow the potential for future construction of Cell 6, which would take the EMWMF to a total capacity of approximately 2.2 million cubic yards. Expansion of EMWMF beyond 1.7 million cubic yards (the upper-bound estimate utilized in the Feasibility Study and the Record of Decision for evaluation purposes) will require revision of the remedial design and may require revision of other CERCLA documentation.

The forecast cost for the design and expansion of Cell 5 is approximately \$33 million, including contingency and escalation. The cost for the additional expansion of EMWMF to 2.2 million cubic yards (Cell 6) would be approximately the same, plus additional escalation.

Environmental Risk and Principal Threat Source Material Rating: Medium

- EMWMF provides a disposal facility for wastes generated from CERCLA response actions thereby protecting public health and the environment.
- Disposal of appropriate wastes in EMWMF prevents the transport of these wastes to offsite disposal facilities and minimizes the risks inherent in transportation.
- Any additional waste proposed for disposal at EMWMF will have to meet the Waste Acceptance Criteria.

Other Prioritization Factors:

- Construction of EMWMF Cell 5 (increase of total capacity to ~1.7 million cubic yards) is necessary to continue progress on the current EM baseline scope.
- Construction of EMWMF Cell 6 (increase of total capacity to ~2.2 million cubic yards) is necessary to begin the additional IFDP scope.
- Expansion of EMWMF as scheduled is necessary to maintain the pace of remediation.
- If waste must be disposed offsite, the cost of waste shipping and disposal will increase, and the amount of time it would take to perform the remediation work would increase.

Overall Prioritization: High

The expansion of EMWMF is necessary to dispose of waste planned to be generated in a cost-effective manner. The overall prioritization for the expansion of EMWMF is **High**.

